

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph which appears on page 8, line 26 and ends on page 9, line 3, with the following rewritten paragraph:

Figs. 1 to 3 show a modular measuring device, including a sensor module 5 having a sensor compartment in which a physical-to-electrical sensor [[7]] is arranged, and an electronics module 13 having an electronics compartment in which a measuring device electronics is arranged. The sensor [[7]] can be e.g. a pressure sensor, a temperature sensor, a capacitive, fill-level probe, an ultrasonic sensor or a microwave emitting and receiving, microwave module, or, as shown here, a flow meter insertable into the course of a pipeline.

Please replace the paragraph which appears on page 9, line 5 and ends on line 20, with the following rewritten paragraph:

Furthermore, the measuring device has a first connecting element 19 mounted on the electronics module 13 and electrically connected with the measuring device electronics [[7]], and a second connecting element 20 mounted on the sensor module 5 and electrically connected with the sensor [[7]]. Sensor module 5 and electronics module 13 are releasably, mechanically connected together, accompanied by the formation of a connecting compartment 17 lying between the sensor compartment and the electronics compartment, especially a connecting compartment sealed fluid-tightly and/or pressure-tightly relative to the surrounding atmosphere. The two connecting elements 19, 20 are electrically, especially galvanically, connected together, so that measuring device electronics and sensor are electrically coupled together, with the two mutually connected, connecting elements being accommodated in the connecting compartment 17 formed between the sensor and electronics compartments.

Please replace the last paragraph which appears on page 9, line 22 and ends on line 30, with the following rewritten paragraph:

In an embodiment of the invention, at least one of the two connecting elements has electrically conductive, plug elements directed essentially in parallel with one another, and the other of the two connecting elements has electrically conductive, socket elements corresponding to the plug elements and directed essentially in parallel with one another. The plug elements are inserted into the socket elements and contact there such that sensor [[7]] and measuring device electronics [[7]] are electrically connected together.

Please replace the paragraph which appears on page 13, line 13 and ends on line 19, with the following rewritten paragraph:

On the sensor-facing side of the connecting element 19, terminals are provided, to which terminals of the connecting element 20 corresponding thereto are connectable. These terminals are e.g. clamping plugs, into which connecting lines [[25]] of the sensor [[7]] are insertable. The terminals are likewise, in each case, connected internally in the connecting element 19 with a contact element and connected thereby to the electrical circuit.

Please replace the last paragraph which appears on page 13, line 25 and ends on page 14, line 2, with the following rewritten paragraph:

The electronics module 13 has an opening, through which the measuring device electronics is introduced during its assembly. The opening is closed with a releasable housing lid 27. When the housing lid 27 is open, the connecting clamps [[23]] are accessible. Further provided is a hermetically sealed feedthrough, through which external lines are guided into the electronics module [[5]]. These external lines are then connected to the connecting clamps [[23]].